

METHOD FOR INTERPRETING DESIGN DATA AND ASSOCIATING  
MANUFACTURING INFORMATION WITH THE DATA AND SOFTWARE AND  
SYSTEMS FOR IMPLEMENTING THE METHOD

ABSTRACT OF THE DISCLOSURE

A method of generating a manufacturing process for producing an assembly and a computer system or systems implementing the method. The method generally includes the steps of: designing at least one assembly to be produced having at least two components to be engaged to one another such that the area where the components are to be engaged thereby defines at least one contact area; generating a representation, typically a three-dimensional representation, of the assembly; assigning a unique identifier to each individual component of the assembly or, when a group of more than one identical components is utilized in the assembly, assigning identical unique identifiers to each component of the group, thereby identifying each component as identical; assigning manufacturing instructions to the contact area; and generating manufacturing instructions for the manufacturing process based at least in part on the identifier and the contact area.